

**PATENT**  
Attorney Docket No. 205513

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Group Art Unit: 2684

HOLAN ET AL.

Examiner:

Application No. 09/669,424

Filed: September 25, 2000

For: REPRESENTING A SERVICE  
DISCOVERY STREAM AS AN  
N-ARY TREE

**CERTIFICATE OF MAILING**

I hereby certify that this INFORMATION  
DISCLOSURE STATEMENT (along with any documents  
referred to as being attached or enclosed) is being deposited  
with the United States Postal Service on the date shown  
below with sufficient postage as first class mail in an  
envelope addressed to: Commissioner for Patents,  
Washington, D.C. 20231.

Date: 4-27-01 Mary A. Smith

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

In re Appln. of HOLAN et al.  
Application No. 09/669,424

The Information Disclosure Statement is being filed:

**within** any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**after** (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes *one* of:

the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).  
*or*  
 the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).

after the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).

after the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and within thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).

NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.

#### Copies of the References

Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3).

A copy of the foreign search report is enclosed herewith.

The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so

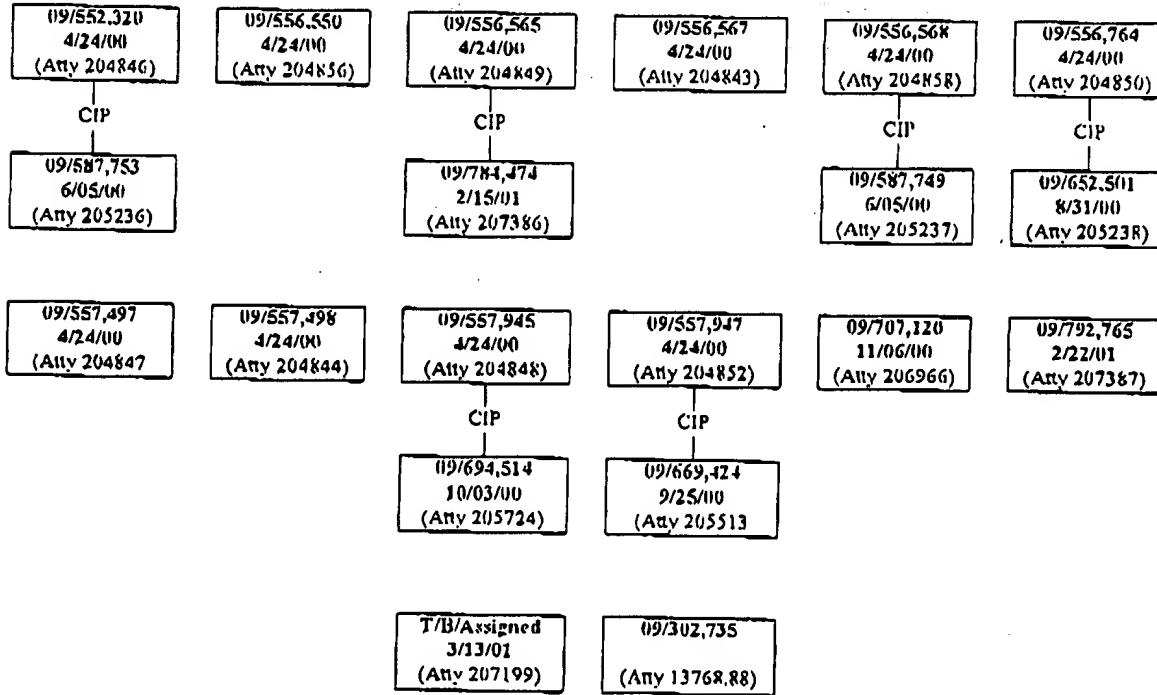
In re Apnl. of HOLAN et al.  
Application No. 09/669,424

as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status (check one)		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1.				
2.				
3.				

### Other Applications

The Examiner's attention is directed to the following pending U.S. patent applications(s). A copy of each application is enclosed in accordance with 37 CFR 1.98(a)(2)(iii).



In re Appln. of HOLAN et al.  
Application No. 09/669,424

**Statement under 37 CFR 1.97(e)**

- The undersigned hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- The undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

**Statement under 37 CFR 1.704(d)**

- The undersigned hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

**Fees**

- No fee is owed by the applicant(s).
- The IDS Fee of \$180 under 37 CFR 1.17(p) is enclosed herewith.

**Method of Payment of Fees**

- Attached is a check in the amount of \$
- Charge Deposit Account No. 12-1216 in the amount of \$ (A duplicate copy of this communication is enclosed for that purpose.)

**Authorization to Charge Additional Fees**

- If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

In re Appln. of HOLAN et al.  
Application No. 09/669,424

**Instructions as to Overpayment**

Credit Account No. 12-1216.  
 Refund

Date: 4/27/01

  
John B. Conklin, Reg. No. 30,369  
LEYDIG/VOIT & MAYER, LTD.  
Two Prudential Plaza, Suite 4900  
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IDS (Rev. 2/1/2001)

(Please type a plus sign (+) inside this box →

T

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

## Complete if Known

Application Number	09/669,424
Filing Date	Sept. 25, 2000
First Named Inventor	HOLAN
Group Art Unit	2684
Examiner Name	
Attorney Docket Number	205513

## U.S. PATENT DOCUMENTS

Examiner Initials	Doc. No.	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication	Filing Date if Appropriate
		Application or Patent Number	Kind Code			

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Doc No	Foreign Patent Document			Name of Patentee or Applicant	Date of Publication	Translation	
		Office	Application or Patent Number	Kind Code			Yes	No**

## OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number (if any), publisher, city and/or country where published	Translation	
			Yes	No**
AA	AA	<u>Specification of the Bluetooth System</u> , v1.0B, Dec. 1, 1999.		
AB	AB	Riku METTALA et al., <u>Bluetooth Protocol Architecture</u> (White Paper), v1.0, Nokia Mobile Phones, Sept. 29, 1999.		
AC	AC	Brent MILLER, et al., <u>Mapping Salutation Architecture APIs to Bluetooth Service Discovery Layer</u> (White Paper), v1.0, IBM Corporation, July 1, 1999.		
AD	AD	IEEE Standard, 802.11, <u>Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications</u> , 1 <sup>st</sup> Ed. 1999, and Supplements 802.11a-1999 and 802.11b-1999.		
AE	AE	Bob O'HARA and Al PETRICK, <u>IEEE 802.11 Handbook A Designer's Companion</u> , Dec. 1999.		

Examiner Signature		Date Considered	

\* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

**Notice of References Cited**Application/Control No.  
09/669,424Applicant(s)/Patent Under  
Reexamination  
HOLAN ET AL.Examiner  
Patrice WinderArt Unit  
2155

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,121,493	06-1992	Ferguson, David E.	707/7
	B	US-5,339,421	08-1994	Housel, III, Barron C.	710/65
	C	US-5,758,380	05-1998	Zbikowski et al.	707/101
	D	US-6,011,871	01-2000	Xu, Fan	382/240
	E	US-6,029,170	02-2000	Garger et al.	707/100
	F	US-6,243,389 B1	06-2001	Khanna et al.	370/408
	G	US-6,493,762 B1	12-2002	Chen et al.	709/231
	H	US-6,532,476 B1	03-2003	King, Kevin D.	707/101
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)

	U	Tomasz Imielinski et al., Energy Efficient Indexing on Air, Proceedings of the 1994 ACM SIGMOD International Conference on Management, 1994, pages 25-36
	V	Ming-Syan Chen et al., Indexed Sequential Data Broadcasting, The 17th International Conference on Distributed Computing Systems, May 1997
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.